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MODTRAN: A moderate resolution model for LOWTRAN

A Berk, LS Bernstein, DC Robertson - 1987 - adsabs.harvard.edu

... **Band model** parameters for H₂O, CO₂, O₃, CO, CH₄ ... This **transmittance model** and associated subroutines have been ... into LOWTRAN 6. The **spectral resolution** of this ...

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MODTRAN 4 radiative transfer modeling for atmospheric correction - group of 5 »

A Berk, GP Anderson, LS Bernstein, PK Acharya, H ... - Proceedings of SPIE- The International Society for Optical ..., 1999 - [spectral.com](#)

... 1 **band model** with comparable accuracy when higher **spectral** ... Keywords: radiative transport, MODTRAN, Correlate-k, **transmittance**, radiative, flux ...

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Atmospheric correction for short-wave spectral imagery based on MODTRAN 4 - group of 5 »

SM Adler-Golden, MW Matthew, LS Bernstein, RY ... - PROC SPIE INT SOC OPT ENG, 1999 - [spectral.com](#)

... has never been directly measured for the 0.94 μm **band**; the **model** used in ... Based on "exact" line-by-line **transmittance** calculations the problem appears to ...

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Models overestimate diffuse clear-sky surface irradiance: A case for excess atmospheric absorption - group of 2 »

RN Halthore, S Nemesure, SE Schwartz, DG Imre, A ... - GEOPHYSICAL RESEARCH LETTERS, 1998 - ecd.bnl.gov

... ii) the models correctly extended the measured **transmittance** between and ... b) **Spectral** albedo of ... Chetwynd, and LM Kimball, Very Narrow **Band Model** Calculations of ...

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Status of atmospheric correction using a MODTRAN 4-based algorithm - group of 4 »

MW Matthew, SM Adler-Golden, A Berk, SC ... - PROC SPIE INT SOC OPT ENG, 2000 - [spectral.com](#)

... limited by the accuracy of its radiation transport **model**. ... against "exact" line-by-line **transmittance** calculations degraded ... In the 0.94 μm **band** the errors are ...

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Reformulation of the MODTRAN band model for higher spectral resolution - group of 4 »

A Berk, PK Acharya, LS Bernstein, GP Anderson, JH ... - ... for multispectral, hyperspectral, and ultraspectral imagery ..., 2000 - [spectral.com](#)

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MODTRAN: A moderate resolution model for LOWTRAN(Technical Report, 12 May 1986- 11 May 1987)

A BERK, L BERNSTEIN, D ROBERTSON - 1987 - csa.com

... **Band model** parameters for H₂O, CO₂, O₃, CO, CH₄ ... This **transmittance model** and associated subroutines have been ... into LOWTRAN 6. The **spectral resolution** of this ...

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MODTRAN: A moderate resolution model for LOWTRAN 7(Final Report, 12 May 1986- Apr.

1989)

A BERK, L BERNSTEIN, D ROBERTSON - 1989 - csa.com

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WM Cornette, SJ Westmoreland, PK Acharya, A Berk, ... - NASA, 1998 - csa.com

... The MOderate **Spectral** Atmospheric Radiance and **Transmittance** (MOSART) code ... MOSART uses the same **band model** and 1 1/cm **resolution band** parameter data ...


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FLAASH and MODTRAN4: State-of-the-Art Atmospheric Correction for Hyperspectral Data

A GP, B Pukall, CL Allred, LS Jeong, M Hoke, JH ... - ieeexplore.ieee.org

... principles atmospheric correction codes, **model** simulations of ... the 762 nm O2 **band** (darker areas ... Atmospheric Signature Code (**Spectral Transmittance** and Radiance ...

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B STURM - International Journal of Remote Sensing, 1999 - Taylor & Francis

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M Sicard, KJ Thome, BG Crowther, MW Smith - JOURNAL OF ATMOSPHERIC AND OCEANIC TECHNOLOGY, 1998 - ams.allenpress.com

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Y Saito, T Teramura, A Nomura, T Kano - ao.osa.org

... e 2 SJJ- F \ kT involving **band** oscillator strength F ... a few percent in the **spectral** **region** encompassing the ... respect to that of the **atmospheric** constituent from ...

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A Berk, LS Bernstein, DC Robertson - 1987 - adsabs.harvard.edu

Abstract. This interim technical report describes a new **band model** formulation for the LOWTRAN 6 atmospheric transmittance/radiation computer code. ...Cited by 276 - [Web Search](#) - [Library Search](#)**MODTRAN 4 radiative transfer modeling for atmospheric correction - group of 5 »**

A Berk, GP Anderson, LS Bernstein, PK Acharya, H ... - Proceedings of SPIE- The International Society for Optical ..., 1999 - spectral.com

... A correlated-k algorithm improves multiple scattering, eliminates Curtis-Godson averaging, and introduces Beer's Law dependencies into the **band model**. ...Cited by 26 - [View as HTML](#) - [Web Search](#)**Models overestimate diffuse clear-sky surface irradiance: A case for excess atmospheric absorption - group of 2 »**

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... **Alexander Berk** Spectral Sciences Incorporated, Burlington, Massachusetts ... GP Anderson, JH Chetwynd, and LM Kimball, Very Narrow **Band Model** Calculations of ...Cited by 28 - [View as HTML](#) - [Web Search](#) - [BL Direct](#)**Atmospheric correction for short-wave spectral imagery based on MODTRAN 4 - group of 5 »**

SM Adler-Golden, MW Matthew, LS Bernstein, RY ... - PROC SPIE INT SOC OPT ENG, 1999 - spectral.com

... These include the number of water vapor column amounts, the multiple scattering algorithm (Isaacs 2-stream or DISORT n-stream), **band model** resolution (standard ...Cited by 21 - [View as HTML](#) - [Web Search](#)**MODTRAN4: radiative transfer modeling for remote sensing - group of 5 »**

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... Another option that can be selected in MODTRAN is the **band model** spectral resolution. ...The MODTRAN **band model** resolution has a smaller effect. ...Cited by 4 - [Web Search](#)**MODTRAN4 version 2: radiative transfer modeling - group of 3 »**

GP Anderson, A Berk, PK Acharya, MW Matthew, LS ... - Proc. SPIE, 2001 - adsabs.harvard.edu

... input, as an auxiliary where the hydrostatic equation is integrated explicitly to compute the altitudes, *CFC cross-sections with **band model** parameters derived ...
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